भारतीय मानक
Indian Standard

IS 1619 : 2023

वस्त्रादि — स्वचालित कॉप चेंजिंग जूट करघों के लिए बफर बैंड — विशिष्टि

(दूसरा पुनरीक्षण)

Textiles — Buffer Band for Cop-Changing Automatic Looms — Specification

(Second Revision)

ICS 59.120.30

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June 2023 **Price Group 4**

Textile Machinery and Accessories Sectional Committee, TXD 14

FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Textile Machinery and Accessories Sectional Committee had been approved by the Textiles Division Council.

A buffer composed of several pieces of leather, is threaded on the spindle between the picker and the spindle stud. It prevents the picker from beating against the solid steel stud during its forward movement.

This standard was originally published in 1960 and subsequently revised in 1976. This revision has been made in the light of experience gained since its publication and to incorporate the following major changes:

a) Scope has been modified;
b) Title of the standard has been modified;
c) Marking and packing clauses have been modified;
d) Sampling clause has been incorporated; and
e) Reference to Indian standard has been updated.

The composition of the committee responsible for the formulation of this standard is listed in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounding off in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

TEXTILES — BUFFER BAND FOR COP-CHANGING AUTOMATIC LOOMS — SPECIFICATION

(Second Revision)

1 SCOPE

This standard prescribes the requirements of the buffer band which is used in cop-changing automatic looms.

2 REFERENCES

The standards listed in Annex A contain provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards listed in Annex A.

3 MATERIALS

3.1 Tanned Ox or Buffalo Hide

The degree of tanning, determined as prescribed in LC : 21 of IS 582.

3.2 Rivets

Countersunk head type (*see* IS 2155).

3.3 Washers

Washers shall be according to IS 2016.

4 SHAPE, DIMENSIONS AND WORKMANSHIP

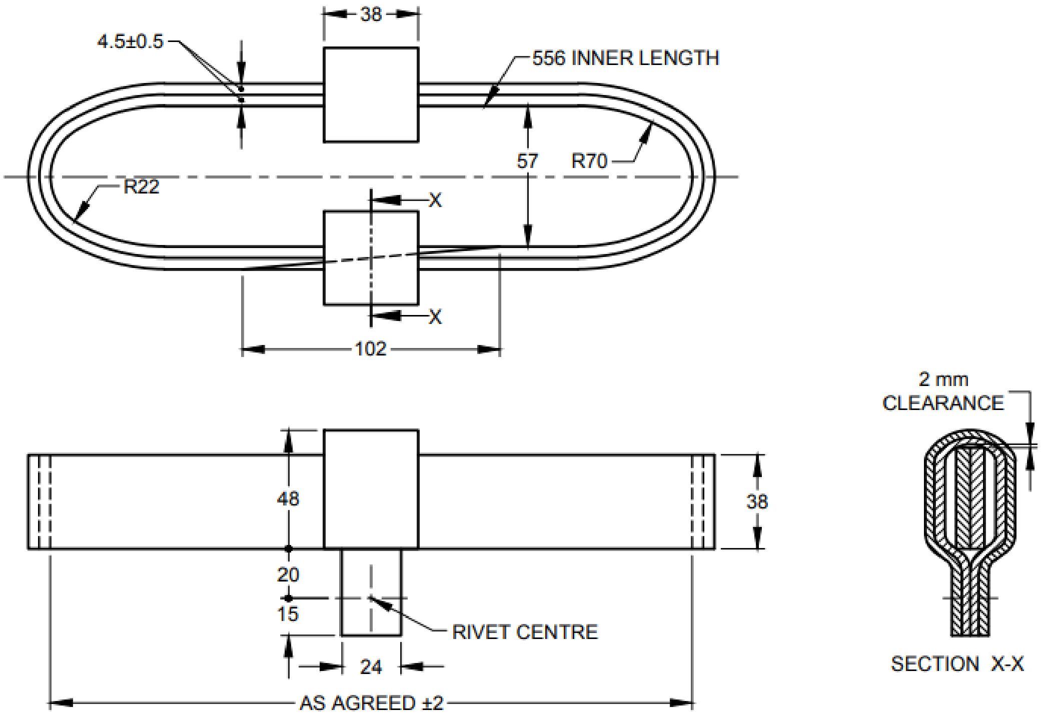
Generally as shown in Fig. 1. It shall be provided with two runners, loose or riveted as specified in the contract.

NOTES

1 Inner dimensions of major and minor axis shall be measured after mounting the buffer band in a suitable measuring block.

2 The runners may have the curvature of runner fit at the option of the buyer.

3 The total length of runner when mounted shall not be less than 83 mm including a clearance of 2 mm (as detailed at Section XX).



All dimensions in millimetres

FIG. 1 TYPICAL BUFFER BAND FOR COP-CHANGING AUTOMATIC LOOMS

4.1 Substance (or Thickness)

When tested in accordance with LP : 1 of IS 5914, the thickness shall be (9.0 ± 0.5) mm at any part of the buffer band.

4.2 Layers

Two layers firmly cemented, each (4.5 ± 0.5) mm thick.

4.3 Splices in the Joint

Cemented, not less than 10 cm long and trimmed to a fine angle.

4.3.1 For the purpose of jointing, a good quality cellulose or synthetic resin cement shall be used to ensure a waterproof and flexible joint.

4.3.2 When the jointed portion of the buffer band is bent to an angle of 90° over an iron form of 5 cm in diameter, the splices shall not open at the ends of the joint.

4.3.3 The buffer band shall have preferably one (or maximum two) joints.

4.4 Tensile Strength and Elongation

When at least 5 buffer bands in a sample selected at random from a lot are tested in accordance with LP : 6 of IS 5914.

a) the average tensile strength shall not be less than 210 kgf* per cm width; and
b) the average elongation shall not exceed 6 percent at a load of 50 kgf/cm^2 cross-sectional area applied for 15 minutes.

5 MARKING

5.1 Each buffer band shall bear the name of manufacturer or trade-mark, and a code number to trace the month and year of manufacture.

5.2 Each buffer band/carton of buffer band shall also bear the following information:

a) Type of the leather;
b) Net weight of the content;
c) Code number to trace back the history of production;
d) Dimension of buffer band;
e) Number of buffer bands in the lot;
f) Gross and net mass;
g) Lot/batch number;
h) Country of origin; and
j) Any other information required by the law in force and/or by the buyer.

5.3 BIS Certification Marking

The Buffer band conforming to the requirements of this standard may be certified as per the conformity assessment schemes under the provisions of the *Bureau of Indian Standards Act*, 2016 and the Rules and Regulations framed thereunder, and the products may be marked with the Standard Mark.

6 PACKING

Unless otherwise specified, the buffer band shall be wrapped in waterproof paper and then packed in suitable containers.

7 SAMPLING

Unless otherwise agreed to between the buyer and the seller, to ascertain the conformity buffer band to the requirements of this specification, or as specified in IS 2500 (Part 1) shall be followed.

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*1 kgf – 9.8 N.

ANNEX A
(*Clause* 2)

LIST OF REFERRED INDIAN STANDARDS

IS No.	*Title*
IS 582 : 1970	Methods for chemical testing of leathers (*first revision*)
IS 2016 : 1967	Specification for plain washers (*first revision*)
IS 2155 : 1982	Specification for cold forged solid steel rivets for hot closing (6 mm diameter to 16 mm diameter) (*first revision*)
IS 2500 (Part 1) : 2000	Sampling procedures for inspection by attributes: Part 1 Sampling schemes indexed by acceptance quality limit (AQL) for lot by lot inspection (*third revision*)
IS 5914 : 1970	Methods of physical testing of leather

ANNEX B

(*Foreword*)

COMMITTEE COMPOSITION

Textile Machinery and Accessories Sectional Committee, TXD 14

Organization	*Representative(s)*
Central Manufacturing Technology Institute, Bengaluru	Dr Nagahanumaian **(*Chairperson*)**
ATE Enterprises Private Limited, New Delhi	Shri Abhijit Kulkarni Shri Anil Kumar Sharma (*Alternate*)
Amritlakshmi Machine Works, Mumbai	Shri N. K. Brahmachari Shri N. K. Raut (*Alternate*)
Bhowmick Calculator, Kolkata	Shri Goutam Bhowmick Shri Vivekananda Bhowmick (*Alternate*)
Central Manufacturing Technology Institute, Bengaluru	Shri B. R. Mohanraj Shri K. Saravanan (*Alternate*)
Confederation of Indian Textile Industry, New Delhi	Shri Ajay Kumar
Dashmesh Jacquard and Powerloom Private Limited, Panipat	Shri Rajmeet Dhammu (*Representative*)
HLL Lifecare Limited, Noida	Shri Akhil G. S. Shri Ratnakar Gupta (*Alternate*)
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India ITME Society, Mumbai	Shri Prashant Mangukia Shrimati Seema Srivastava (*Alternate*)
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National Safety Council, Navi Mumbai	Shri Lalit R. Gabhane Shri R. R. Deoghare (*Alternate*)
Office of the Textile Commissioner, Mumbai	Shri C. R. Kalesan Shri Jagram Meena (*Alternate*)

Organization	*Representative(s)*
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SHRI SWAPNIL
SCIENTIST 'B'/ASSISTANT DIRECTOR
(TEXTILES), BIS

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Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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